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TIONAL PHOTOGRAPHIC INTERPRETATION CENTER	Top Secret 25X1

basic imagery interpretation report

Soviet Mobile Missile Summary

25X1

DEPLOYED STRATEGIC SSM FACILITIES BE: Various USSR

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25X1 RCA-01/000425X1 APRIL 1980 Copy 167



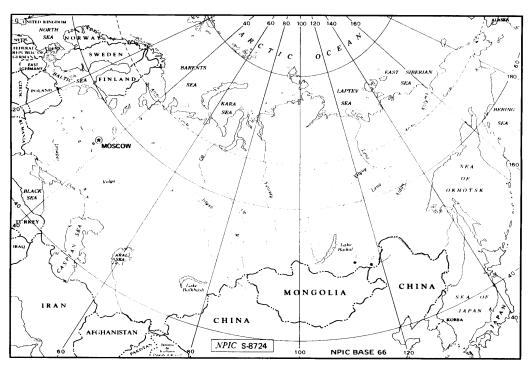


FIGURE 1. LOCATIONS OF SS-16/-20 ACTIVITY, USSR

Item	Installation Name	BE No
1	Polotsk Mobile IRBM Base 1	
	Polotsk Mobile IRBM Base 2	
2	Postavy Mobile IRBM Base	
3	Smorgon Mobile IRBM Base 1	
	Smorgon Mobile IRBM Base 2	
4	Minsk Motor Vehicle and Guided	
	Missile Support Plant	
5	Kozhanovichi Mobile IRBM Base	
6	Konkovichi Mobile IRBM Base	
7	Mozyr Mobile IRBM Base/Training Facility	
8	Rechitsa Mobile IRBM Base	
9	Bryansk Guided Missile Support Equipment Plant II	
10	Serpukhov SSM Engineering ResearchTraining Facility	
11	Plesetsk Missile/Space Test Center SSM	
12	Yurya Mobile IRBM Base 1	
	Yurya Mobile IRBM Base 2	
	Yurya Mobile IRBM Base 3	
13	Volgograd Steel and Machinery Plant	
	Krasnyy Barricada 221	
14	Kapustin Yar Missile/Space Test Center SSM	
15	Verkhnyaya Salda Mobile IRBM Base 1	
	Verkhnyaya Salda Mobile IRBM Base 2	
	Verkhnyaya Salda Mobile IRBM Base 3	
	Verkhnyaya Salda Mobile IRBM Base 4	
16	Novosibirsk Mobile IRBM Base I	
	Novosibirsk Mobile IRBM Base 2	
	Novosibirsk Mobile IRBM Base 3	
	Novosibirsk Mobile IRBM Base 4	
17	Drovyanaya Mobile IRBM Base 1	
	Drovyanaya Mobile IRBM Base 2	
	Drovyanaya Mobile IRBM Base 3	
	Drovyanaya Mobile IRBM Base 4	
	Drovyanaya Mobile IRBM Base 5	
18	Olovyannaya Mobile IRBM Base 1	

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- 2 -



9. (TSR) The TEL imprints seen at Drovyanaya Mobile Base 3 were unique compared to the commonly seen configurations of imprints in that several of the imprints were square rather than circular. On imagery of	25X1
10. (TSR) On vehicle tracks and rectangular snow melt patterns were seen in three separate clearings 0.5 nm south of Drovyanaya Remote Site 1 Four snow melt patterns, apparently caused by parked vehicles (Figure 4—three on graphic) show a close similarity to SS-20 vehicle signatures left at Drovyanaya RTP. This evidence suggests that SS-20 activity was conducted at the remote site at Drovyanaya.	25X1 25X1
11. (TSR) Probable SS-20 missile packaging materials have been identified at operational regiments in six of the SS-20 divisions. The materials believed associated with each missile consist of a probable canister end cap and two half-cylinder probable canister inserts (Figure 5). These materials are most likely used to protect the missile during its initial shipment to the base and are removed prior to the mating of the warhead.	25X1 25X1
12. (TSR) The packaging materials were first seen during what appeared to be a warhead-mating exercise in the operations and support areas of the Mozyr Mobile IRBM Base/Training Facility. On tents were erected at two of the three battalion areas within the operations area. By a probable warhead canister was lying open on the ground in front of a single-bay garage and near the tents in one of the battalion areas. On imagery of the tents and warhead canister had been removed, but the packaging materials remained.	25X1 25X1 25X1 25X1
another SS-20-related exercise was observed at Mozyr between the and the helicopter pad. During that time, five drive-in revetments were occupied by identified camouflaged equipment, and a tent had been erected in a sixth revetment. At least one set of the packaging material had been discarded into a seventh revetment. The presence of the packaging materials at a field training exercise suggests that the Soviets have the capability to mate the SS-20 warhead while it is field deployed.	25X1 25X1
14. (TSR) Two sizes of probable warhead canisters have been identified as being associated with the SS-20 (Figure 6). Since 1977, two types of warhead canisters have been seen at the facilities of seven SS-20 bases, at the Kapustin Yar Missile/Space Test Center SSM, and at the Serpukhov SSM Engineering/Training Facility. The canisters are about	25X1 25X1

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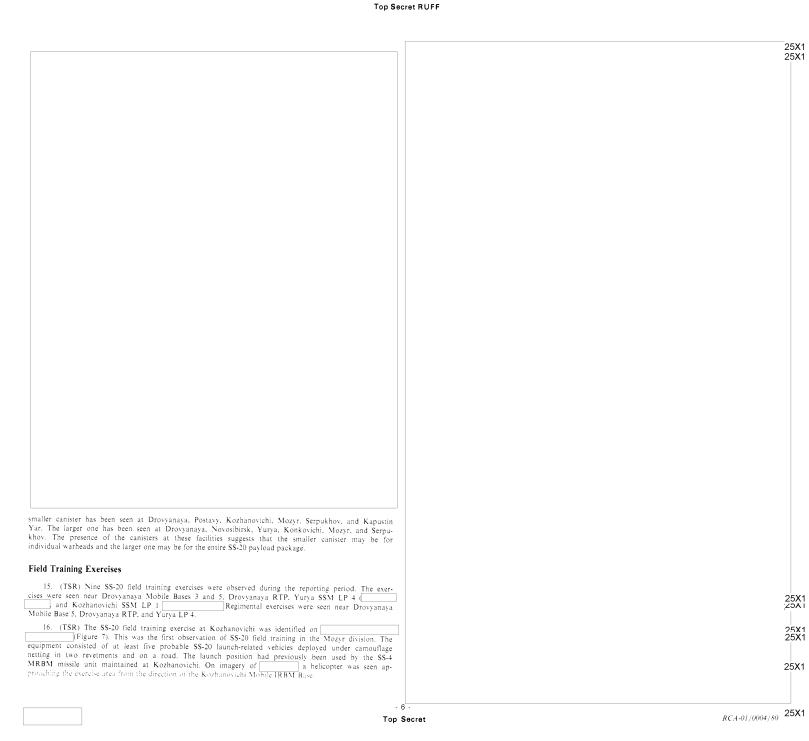
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				OPERATIONS AR	REA				111	Bay Garage		L SUPPORT AREA		- 0 014			Status of Construction at RTP	Remarks/Comments
SSM Installation Name	First Identified	Single-E Gara Complete		3-Bay Gar Complete		11-Bay Complete	ay Garage Ucon	Construction and/or Modifications Complete	(66 Number	Complete	Number	Support Bldg Construction Complete	n Number	Two-Bay Bldg Construction Complete	Number	estory Bldg Construction Complete	Status or construction at N.,	
Drovyanaya Mobile IRBM Base 1	Jul 76	9	-	3	-	1	-	Yes	1	Yes	0.	-	0.	-	0*		technical support bldg complete	Personnel shelters ucon near athletic field mockup sliding-roof and 3-bay garage
Drovyanaya Mobile IRBM Base 2	Feb 77	9		3	-	0	-	Yes	2	Yes	0	-	0	-	0	-	1	Personnel shelters ucon in support area; mockup sliding-roof geräge 2 admin/personnel bldgs ucon in support area
Drovyanaya Mobile IRBM Base 3	Nov 77	9		3	-	. 0	-	Yes	2	Yes	0	-	0	-	0	**		Personnel shelters ucon in support area Temporary construction support area being razed: mockup sliding-roof and 3-bay garage
Drovyanaya Mobile IRBM Base 4	Nov 78	0	8	. 0 ,	, 3	0	, -	No	2	No Yes	0	-	0	-	0		1	Personnel shelters ucon near support area 3 unid multi-bay garages ucon near support
Drovyanaya Mobile IRBM Base 5	Apr 79	9		3		0		No	'		0	-	0	-	0	-	1	2 SS-11 cannisters in support area 2 open-sided sheds & 2 personnel bldgs
Drovyanaya Remote Site 1	Aug 79	3					-	Yes	"	-	-	-				-	1	2 open-sided shees or 2 personner usugs
Olovyanaya Mobile IRBM Base 1	May 79	0	9	0	3	0	0	No	l °	0	0							
Novosibirsk Mobile IRBM Base 1	Jan 77	9	-	3		0	-	Yes	2	Yes	0*		0.	-	0.	-	Complete	
Novosibirsk Mobile IRBM Base 2	Dec 77	9		3		0	-	Yes	2	Yes	0	-	0	-	0	-		Two 11-bay garages end-to-end in support area
Novosibirsk Mobile (RBM Base 3	Jun 78	9		3	-	0		No No	2	Yes	0	-					1	(in the control of th
Novosibirsk Mobile (RBM Base 4 Verkhnyaya Salda Mobile	Dec 79 Feb 78	9		0	2	0	-	No Yes	2	Yes	٥٠	-	0.		0*	-	Clerestory in late stage of construction;	
IRBM Base 1 Verkhnyaya Salda Mobile	Jan 79	9	-	3	-	0	-	Yes	2	Yes	0	-	0		0			area
IRBM Base 2 Verkhnyaya Salda Mobile	Nov 79	0	7	0	2		-		١,	No		-						
IRBM Base 3 Verkhnyaya Salda Mobile IRBM Base 4	Mar 80	0	2	0	0	0	0	No	0	-	-	-	-	-	- '	-		
Yurya Mobile IRBM Base 1	Apr 78	9	-	3		0	-	Yes	1	Yes	0*	-	0.	-	0*	-	1	
Yurya Mobile IRBM Base 2	Jan 79	9		3	-	0	-	Yes	2	Yes	0	-	0		0		Clerestory in late stage of construction:	er en
Yurya Mobile IRBM Base 3	Dec 79	0	6	0	2	0	0	No	-			**		-	**			
Konkovichi Mobile IRBM Base	Nov 75	9		3	-	1		Yes	2	Yes	1	Yes	1	Yes	1	Yes	Complete	
Kozhanovichi Mobile IRBM Base	Jul 76	9	-	3	-	1	-	Yes	2	Yes	1	Yes	1	Yes	1	Yes	Complete	C-shaped hq/admin bldg in midstage of construction; Temporary construction support area being razed
Mozyr Mobile IRBM Base Training Facility	Oct 76	9	-	3	=	0	-	Yes	3	Yes	1	Yes	1	Yes	1	Yes	Complete	
Postavy Mobile IRBM Base	Oct 77	9	-	3	-	0	-	Yes	2	Yes	1	Yes	1	Yes	1		Complete	Temporary construction support area being razed
Smorgon Mobile	Apr 78	9		3	-	0	-	Yes	2	Yes	1	Yes	1	Yes	0		Complete	SS-5 GSE bidg prob. being used in place of clerestory
IRBM Base 1 Smorgon Mobile IRBM Base 2	Aug 79	0		0	1		-	No	1	No	0	**	0	-	0	-		
Rechitsa Prob Mobile	Sep 78	_			_	-	_		2	Yes	1	Yes	1 .	Yes	. 1	No	Construction continuing	
IRBM Base Rechitsa Remote Site 1	Aug 79	3		-		-		Yes		**				-				
Rechitsa Remote Site 2	Aug 79	3						Yes								-		
Rechitsa Remote Site 3	Aug 79	3		-				Yes				-	**		-			
Polotsk Mobile	Oct 78	9	-	3	-	0	-	Yes	2	Yes	1	No	1	No	1	No	Complete	\$ POL storage & fueling facility in midstage of construction
IRBM Base 1 Polotsk Mobile IRBM Base 2	Aug 79	0	6	0	2	0	-	No	0	-	0	-	0		0			Temporary construction support area in late stage of construction

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Table 2.
Mobile Missile-Associated Gar ges/ Buildings at Soviet Test Centers **
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	l				PRIMA	RY SS-16/-2	0 GSE GARAG	ES					OTHER MOBILE MISSILE: ASSOC SUPPORT BLDGS										
Installation Name	Single-Bay Complete	Garage Ucon	3-Bay Go Complete	ra ge Ucon	6-Bay C	arage Ucon	9-Bay Ga Complete	rage Ucon	11-Bay 6 (66 x 1 Complete		11-Bay G (66 x 2 Complete		Drive High Tw (30 x Complete	ю-Вау	Tech Su Complete	pport Ucon	Cleres Complete	tory Ucon	Miscellar Complete	eous Ucon		Remarks	
Msi Rec/Inst/Stor Area	0	0	0	0	2	0	1	0	1	0	0	0	0	0	0	0	0	0	10	2			
MR/IRBM Biv/Trp Trng A 19	3	0	1	0	1	. 0	2	0	1	0	0	0	0	0	- 1	0	0	0	5	- 1			
General Support Area	0	0	0	0	1 .	. 0	1	0	0	1	0	0	0	0	0	0	0	1	0	, 1	Footing for poss 11-b 60- x 24-meter, 10-bs	say garage partially co	mplete; 2
Launch Site 1C	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0				.,	
Mobile ICBM Fac 1	6	0	0	0	0	0	0	0	2	0	1	0	0	0	1	0	1	0	3	0			
Mobile ICBM Fac 2	6	0	0	0	0	0	2	1	3	0	1	0	,	0	0	0	1	0	0	2	9-bay garage ucon is	still in foundation stap	70.
ICBM Launch Test Site 6	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0			
ICBM Launch Test Site 5	0	0	1	0	0	. 0	2 '	0	0	0	,	0	0	1	,		,	0	3	2			

17. ITSR1 Elements of an SS-20 mobile in side launch battalion were seen in a coavoy formation at Novosbirks on Higher 8). The consoly was seen traveling on the open road toward Novosbirks base 2 and consisted of two onesy SS-20 T Lirespay twickles and one Mix-254 missile sympostrist. This was the first time that SS-20 TEL/respays visiteles and one Mix-254 missile sympostrist. This was the first time that SS-20 TEL/respays visiteles have been seen out of garrison, in a deployed area, without cannothings.

Kapustin Yar Missile/Space Test Center SSM

Plesetsk Missile/Space Test Center SSM

23. (TSR) All four mobile-associated bases (Mobile Facilities 1 and 2 and sites 5 and 6) and the SS-16 receiving and checkour area of the missle handling facility were seen at test once during the reporting period. however, now activity was observed. On images or 1 and the state of the period hand been resumed on the high, two-bay payload handling building foundation (Table 2).

24. (TSR) In general, all four mobile-associated bases appeared to be occupied. Steamplant operations and the roads and walk-ways which had been cleared of snow were evident on all coverages of these facilities. On small utility vehicles and personnel were discernible within the operations are and Mobile Facility 2.

The access roads serving the single-bay garages at Mobile Facilities 1 and 2 have not been seen plowed at the same time, indicating that some of the garages may be empty.

Single-Bay Garage Production Bryansk Guided Missile Support Equipment Plant II

25. (TSR) During the reporting period, at least 27 garages were fabricated and at least 26 were shipped out of the plant (Table 3).

Table 3.
Minimum Number of SS-20 Single-Bay Garages
Fabricated at and Shipped from Bryansk Guided Missile
Support Equipment Plant II

	Number of Days	Fabr	icated	Shipped			
	Between Usable Coverages	Complete Garages*	Incomplete Garages	Complete Garages*	Incomplete Garages		
	64	5	4-5	2	7		
	1	0	0-1	0	0		
	23	3	4-5	2	1-2		
	1	0	0	2	0		
	4	0	0	0	0		
	31	0	9-10	3	5		
	7	0	2-3	0	4		
	Total	8	19-24	9	17-18		
Garages fabricated & shipped							
	27 -	- 32	26	- 27			
Garages fabricated & shipped							
	204-	- 229	195 -	220			
Garages fabricated & shipped							
	231 -	- 261	221-	247			

*Includes two stationary end sections and eight sliding-roof sections.

**No imagery of the plant was acquired between

RCA-01/0004/80

25X1 25X1 25X1 25X1 25X1 25X1 25X1 25X1

25X1

25X1

25X1

25X1 25X1 25X1 25X1 25X11 25X1 25X1 25X1 25X1 25X1 25X1 25X1 25X1 25X1

25X1 25X1 25X1

25X1

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	/			NEW	SS-16/20-R	RELATE	FD ANT	CENNAS			//		PRF	E SS-16/-20	O ANTEN	INAS			$\overline{}$				/	/	
						7/.	<u> </u>	///	/1,			7/1	7/1.		; [] _:	<u> </u>	/ //		A STATE OF THE STA				/ 	11/11	Comments
BF Army inaya ICBM Cplx	A 4			2	-	-		-	-	2					-	2	-		-		Compl	Type 8 *	No	No	Trenching & excavations observed near the comsat bidg
8nk vr ntr	A 2 A - A -	:	-		-	-	:	-	-	1	1 3 4	4 2 		-	3	3 1 -	-	=	-		No Yes •		Yes No No	No Yes No	Parking apron for the TWIN EAR still uson Modification of rew first seencontinuing Facility now completed
Base 1	A 2	Yes	-	-	-	-			2	d -				-	-		-				**	-		Yes	Occasionally seen
ase 2 ase 3	A 2 A 2	Yes Yes	-	-	-	-		=	1 1	1 :	-		-		-		:				-	-	No No	Yes Yes	
ase 4 ase 5	U	Yes	-	-			_	-	- 1	d E		=	=					-	-		-	-	No No	No Yes	
va ICBM Cplx	1								1.	1															
*	A -	-	-	-			-	-	- :	1 :	1 2	3 4	:		2	5	:	-			No No	Type B -	No No	No No	,
	A -	-	-	-	-	-			_ T	2	3	3			1	-	-				No *	~	No		Two new buildings ucon in the antenna field; numerous small old revetments
r NE	Α -	-			_	_			. I	1	4		8		-	_	_				No	_	No	No	
NW	A -		_			_				2	,	_	6		2	_	_		_		No	-	No	No	
ase 1	0 -	-	-	-	-	-			- I	1 -			-	-	-	-	- 1		-		-	-	No	No	
RF Army RBM Div	A -	-	-	-	-	_	-	2 *	. !	1 -	2	-		-	-	2	-	-	-		Compl	Түре А	No	No	Two hardened Wisher antennas observed & a third probably present
	Α					-		-	. 1	1 -	4			2	-	3 *	-	-	-		No	-	No	No	Two masts support FORK REST antennas
tr	A		1	-		-		-	_	-	5	-	**	2	-	4 *	-	-	-		No		No	No	Two masts support FORK REST antennas (Dec 1977 imagery)
Sase 1	A -	NO	2				_	-	I	1	-	-	-		-	-	-		uc	con	-	-	_	No	Located 3.5 nm SW of the div CP & rovr
i MRBM Regt	A -	-	2			-	-	-	3			-	-	-	-	-		-	-			No	No	No	Bldg constructed at end of the bunker & antennas erected
r f	A	-	-	-	-	- 1		-	- 1	1 :	2 8	-	-	2 1 poss		-	:	-	-		No No	No No	No No	No No	A series of small excavation seen in the antenna field
Base vichi MRBM Regt	A	No	-	-	-	-		Ξ	1 1	1 -	-	-			-	-	ucon		-		-	-	No	No No	Mobile base collocated with rovr & CP
vr Mana Regi	A		2	-	:	-		Ī	; 1	1 :	2	2	-	2	-	-	ucor	1	N.	0	No No	No No	-	No No	This facility is not the regt CP/BNK and probably never functioned as such Many vehicle tracks seen near C-shaped bidg and the 11-bay garage
ntr Base	A :	 No	-	-	-	=	:	-	= 1	1 :	4	=	-	2	-	-	1 =	-			No -	No No	-	No No	Mobile base collocated with row & CP
HRBM Regt	A -	-	=	=	-	-	-	-	: 1	:	2		-	- 2	-	3 4 •	1 2	:	:		No No	No No	No No	No No	2 masts support FORK REST antennas
ntr Base*	â :	- No	=	-	-	-	-	Ī	= 1	:	7		1	4	-	-	- ucor	n ucor		noo	No -	No -	No No	No No	Rechitsa Mobile I RBM Baze;
hitsa Prob Mobile M Base IRF Army ibirsk ICBM Cplx	A 2		**	1	-		_		,	2	,					2			_		Vos		_	_	completely new base and support area under construction Foundation in support area

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												//		005	00 40/00			7/		/			,			
		13/	/7		/ N	EW SS-1	16/20-REL	LATED AT	NTENNAS			/	, /	/ /	\$5-16/-20	ANTENNAS	· / /				///	1, /	/ ; _/	/	/ /	
	/\$			A CONTRACTOR OF THE PARTY OF TH	1/]]/	///	/]/	///	///			1/1	///	, /]	1 /1/	$'/I_{I}$								Comments	
ıtr	4	3/ -/		3		•/_				4	(<u>/</u>	4	<u>/ . `</u>				<u> </u>	<u> </u>	No.			<u>/_`</u>		
se 1	Â	2 2	Yes		-			-	-	- 4	-	-		-			-	-	-			-	No	. :	Revetments near RTP	
ase 2 ase 3	A	2 2	Yes Yes				-	-	-	- 1	= 1	: :	-	-		-	-	-	-	-	= -	-	No No			
se 4	U			-	41					_					_	_		_	_	_		_		-		
																							-			
RF Army										4																
R/IRBM Div	A		-	3 .	ă		-	1	-	-	-	1	1_	-	-	-	2				compl	No	Yes	No		
r u	Ä	2	-	-	4 :		-	-	-	3	1 :	remove 9	d -	:	-	-	removed 6	1 :	-	-	Yes No	No No	No No	No No	Presently undergoing conversion	
RBM Regt												- 7				-		"		-			No			
	D		-	- 2	100		-				1 -	remove	d	-	removes	removed	-	ucon			compl No	No No	No.	No No	Twin ear seen at 11-bay garage Facility probably deactivated	
ase MRBM Regt	A	-	No	-	25. ±		-		-	- 1	-		-	-	-	-	-	-			-	No	Yes	No	Mobile base collocated with regt CP & rowr	
	А			2	-		-		-	1	-	-		-	-	-	-	-	-		compl	No	No	No	, in the second	
	D A		-	-	45 I		-	-	-	- 1	-	4	-	-	2	-	-			-	No	No No	No No	No No		
ase 1	A	-	No	- "	-		-	-		- ;	-	-	-	-	-			1 2	-	-		No	No	No		
lase 2 RBM Regt		-	No	-	10.		-	-	-	-1	-	2	-	-		-		-	ucon	-	-	No	No	No		
-	A	- 1	-	2	75 5		-	-	-	2		-	-		-		-	-			Yes	No	No	No		
	Ä		-	-	74 I		-	-	-		1	6			2		ī ·	-	-		No No	No No	No No	No No	Polotsk/Disna MRBM Regt Xmtr;	
											1							1							the mast supports a FORK REST antenna	
Base 1	. A	(·	No No		· ·		-	-	-	-	-	-	-	=	-	-	-		-	-	-	No	No	No		
Base 2 Disna MRBM Regt Xmtr	· U	-	No	-			-	-				-	-	-	-	-		-	ucon	-	-	-	-	-		
											ŀ															
iRF Army ya Salada ICBM Cplx																										
	A			5	(; 1			-	-		2	1		-			2	_	-	-	ucon	No	No	-	i i	
	Α.	-		-	-		-	-	-	-	-	2	2	-	2	2	5 .	-	-	-	Yes	No	No	-	1 FORK REST	
CVF.	Α.											_														
W.	Ä	- 1	2				2	1	-	-	-	7	Remove	3	ī	- 1	4 *	-	-	-	ucon	No No	No No		2 FORK REST	
																					Yes		140		21011011201	
se 1 se 2	A		Yes	-	-		-	-	-		-		-	-		- 1	-	-	_	-		-	No	No		
se 3	. A		Yes				-	-	-		1 :	-		-	-		-		-		-	-	No No	No No		
sa 4	į u	-	-	-	-		**	-		-	-	-			-	-	-	-		-	-	-	-	-		
F Army M Cpls																		1								
	Α.	2 ucon	-	2	,					-	2	2	1	-	-		3 *	-	-	-	ucon	No	No	-	1 mast for R-400; bunker modification underway	
												Remove	d								Yes					
	A		-		-		-		-	- '	-	8		-	2	-	2 .	-	-	-	-	No	No	-	2 FORK REST antennas	
,																										
'		, T	-	-	18 "		-	-	-	-	-	10	-	1		-	6 .	-	-	-		No	No	-	3 FORK REST antennas 1 R-400	
se 1										1	1							1								
rse 2	A	-	Yes		1 1		-	- 1	-	-					-	-		1 :		- 1	-	- 1	No No	Yes No		
b# 3	· U	14.5	-		110			-		- 1		-	-	-	-	-	-			_		_	No	No		

*See comments

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- 30. (TSR) At Verkhnyaya Salda ICBM Complex/Bunker (Figure 11), seven lattice towers have been added. In the previous report, six of the footings for these towers had been identified. The control bunker was still undergoing modification.
- still undergoing modification.

 31. (TSR) New C-shaped command and control buildings have been identified under construction at Smorgoin Mobile Base 2 and Polotisk Mobile Base 2. These are the first two such buildings identified outside the Mozyr division and are only the fourth and fifth to be constructed at SS-20 bases. The buildings may function as regimental headquarters, since they have only been seen at mobile missile support bases which do not have regimental command post (CP) bunkers.
- witten oo not have regimental command post (CP) bunkers.

 32. (TSR) Modification of the Drovyanaya ICBM Headquarters Radio Communication Receiver/
 Bunker/Hard continued during the reporting period. The excavation of the complex receiver bunker is similar to that seen at the Postavy/IR/MRBM Headquarters Radio Receiver/Bunker/Hard in June 1979.

 In addition, one of the two lattice was taken down in February 1980. No additional changes have been observed in the antenna field.

SS-16/-20 Command and Control

- 26. (TSR) Significant command and control activity was observed during the reporting period (Ta-ble 4). A probable command and control and communications system was identified at deployed SS-16/-20 bases in the eastern USSR; seven lattice towers were erected at the Verknayay Salda (TSM Complex Command Post; and a C-shaped command and control/communications building was identified at Smorgon Mobile IRBM Base 2 and Polosis Mobile IRBM Base 2.
- gon Mobile (RBM Base 2 and Polotisk Mobile (RBM Base 2.)

 27. (TSR) A probable command and control/communications system has been identified in the support areas of the 11 operational SS-20 bases in the Chita, Vladimir, and Orenburg SRF Armies. All of these command and control systems were completed prior to the bases becoming operational. This system has not been identified at six other SS-20 bases which were still under construction within these armies (the armies are all in the eastern USSR).
- (the armies are all in the eastern USSK).

 28. (TSR) The new communications system consists of a control building with a roof-mounted antenna array and two 28-meter-high lattice towers—previously identified as 30-meter-high lattice towers. The control building is connected by cable to the lattice towers. Generally, two types of roof-mounted antenna element configurations have been observed on the control buildings. One type of roof-mounted antenna array consists of two sets of antennas parallel to the long axis of the control building. One of the sets is comprised of six antennas which are envely spaced along the centerline of the building. The other set consists of two antennas which are envely spaced along the centerline of the building. The other set consists of two antennas which are in line with the first set but are spaced differently. Both sets of antennas are connected by cable to a central feed point on the side of the control building (Figure 9). Nine antennas are connected by cable to a central feed point on the side of the control building (Figure 9). Nine antennas are connected by cable to a central feed point on the side of the control building (Figure 9).
- 29. (TSR) The other type of roof-mounted antenna array consists of two sets of three antennas mounted parallel to the long axis of the control building. They are mounted along the centerline of the control building and are connected by cable to a central feedline (Figure 10). Two antenna arrays of this type have been identified.

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(S) Comments an		port are welcome. They may be exploitation Group, NPIC:	directed to the following po	oints of contact in	
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